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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/653,613	08/31/2000	Alan Lasneski	004589.P003	4147	
7:	590 08/06/2003				
Donna Jo Coningsby			EXAMI	EXAMINER	
Blakely Sokoloff Taylor & Zafman LLP 7th Floor 12400 Wilshire Boulevard Los Angeles, CA 90025		P	SHAPIRO, LEONID		
			ART UNIT	PAPER NUMBER	
			2673	1/4	
	•	•	DATE MAILED: 08/06/2003	(4)	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/653,613	LASNESKI, ALAN				
Office Action Summary	Examiner	Art Unit				
	Leonid Shapiro	2673				
The MAILING DATE of this communication app	· · · · · · · · · · · · · · · · · · ·	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nety filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)⊠ Responsive to communication(s) filed on <u>30 J</u>	lune 2003					
,	is action is non-final.					
3) Since this application is in condition for allowa		responding as to the merits is				
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.				
4) Claim(s) <u>17-21,23-27 and 29-33</u> is/are pending	g in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>17-21, 23-27and 29-33</u> is/are rejected	6)⊠ Claim(s) <u>17-21, 23-27and 29-33</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o Application Papers	r election requirement.					
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>11 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priorapplication from the International BuSee the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
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Drawings

1. The corrected or substitute drawings were received and approved on 07-11-03. These drawings are Figures 1-11.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 17-21, 23-27 and 29-33 rejected under 35 U.S.C. 103(a) as being unpatentable over Kuzma (US Patent No. 5,574,700) in view of Manning (US Patent 5,519,790).

As to claim 17, Kuzma teaches a method comprising: converting a frame of analog image data to a frame of digital image data (See Fig 1-2, items 101-105, 220, 240, in description See Col.5, Lines 13-14); capturing the frame of digital image data (See Fig. 2, items 210,230,240, in description See Col. 5, Lines 45-65); converting subsequent frames of analog image data to frames of digital image data (See Fig. 2, items 210,230,240, in description See Col. 5, Lines 45-65); sending the captured frames to a display object (See Fig 1-2, items 101-105, 220, 240, in description See Col.5, Lines 58-65).

Kuzma teaches comparing frames (See Fig. 6, item 602). However, Kuzma does not teach comparing pixel data of the converted subsequent frames to the pixel data of the captured frame to identify a converted subsequent frame having pixel data that differs from the pixel data

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of the captured frame by a threshold amount, capturing the identified frame, sending the captured frames to a display object, wherein the non-captured frames are discarded.

Manning teaches that after a key frame is established the next frame is compared to the key frame to determine whether the next frame is another key frame, capture the new key frame (See Fig. 2a-2c, items 42,50, in description See col.2, Lines 27-32); sending the captured frames to a display object, wherein the non-captured or (non-key) frames are skipped (See Fig. 2c, items 50,56,66, in description See Col. 6, Lines 3-5). One of the ordinary skills in the art will recognize that proceeding from decision blocks 50 and 66 to block 56 in Fig. 2c will be equivalent to discarding of the frame in Applicant disclosure. It would have been obvious to one ordinary skill in the art at the time of invention to use Manning approach in the Kuzma method of comparing frames to reduce video noise and also improve compressibility, required bandwidth, and reduce the storage capacity, which is always desired in any data processing (See Col. 2, Lines 15-16 in the Manning reference).

As to claim 18, Manning teaches the method of reducing video noise, which includes phase noise, with the threshold selection (See Fig. 2, in description See Col.3, Lines 29-33, and Col. 2, Lines 28-33).

As to claim 19, Manning uses pixel values as numerical value for each color of each pixel and the difference between any of the plurality of pixel values is the difference between the numerical values for each color of each of the corresponding pixels of the converted subsequent frames to the pixel data of the captured frame (See Fig. 3-5, in description See Col. 2, Lines 26-33).

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As to claim 20, Manning shows that the difference between any of the plurality of pixel values of the compared frames exceeds a pre-selected threshold value when the absolute value of the difference is grater than the pre-selected threshold value (See Fig.2b, item 42, in description See Col.2, Lines 25-32).

As to claim 21, Manning shows that the color for each pixel includes the color red, green, and blue (See Fig. 1, item 10, 12, 14, 16, in description See Col. 3, Lines 12-14).

As to claim 23, Kuzma teaches an article of manufacture comprising a machine accessible medium having content that when accessed provides instructions to cause an electronic system to: convert a frame of analog image data to a frame of digital image data (See Fig 1-2, items 101-105, 220, 240, in description See Col.5, Lines 13-14); capture the frame of digital image data frames (See Fig. 2, items 210,230,240, in description See Col. 5, Lines 45-65); convert subsequent frames of analog image data to frames of digital image data (See Fig. 2, items 210,230,240, in description See Col. 5, Lines 45-65); send the captured frames to a display object (See Fig 1-2, items 101-105, 220, 240, in description See Col. 5, Lines 58-65).

Kuzma teaches comparing frames (See Fig. 6, item 602). However, Kuzma does not teach compare pixel data of the converted subsequent frames to pixel data of the captured frame to identify a converted subsequent frame having pixel data that differs from the pixel data of the captured frame by a threshold amount, capture the identified frame; and sent the captured frames to a display object, wherein the non-captured frames are discarded.

Manning teaches that after a key frame is established the next frame is compared to the key frame to determine whether the next frame is another key frame, capture the new key frame (See Fig. 2a-2c, items 42,50, in description See col.2, Lines 27-32); sending the captured frames

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to a display object, wherein the non-captured or (non-key) frames are skipped (See Fig. 2c, items 50,56,66, in description See Col. 6, Lines 3-5). One of the ordinary skills in the art will recognize that proceeding from decision blocks 50 and 66 to block 56 in Fig. 2c will be equivalent to discarding of the frame in Applicant disclosure. It would have been obvious to one ordinary skill in the art at the time of invention to use Manning approach in the Kuzma method of comparing frames to reduce video noise and also improve compressibility, required bandwidth, and reduce the storage capacity, which is always desired in any data processing (See Col. 2, Lines 15-16 in the Manning reference).

As to claim 24, Manning teaches the article of manufacture of reducing video noise, which includes phase noise, with the threshold selection (See Fig. 2, in description See Col.3, Lines 29-33, and Col. 2, Lines 28-33).

As to claim 25, Manning uses pixel values as numerical value for each color of each pixel and the difference between any of the plurality of pixel values is the difference between the numerical values for each color of each of the corresponding pixels of the converted subsequent frames to the pixel data of the captured frame (See Fig. 3-5, in description See Col. 2, Lines 26-33).

As to claim 26, Manning shows that the difference between any of the plurality of pixel values of the compared frames exceeds a pre-selected threshold value when the absolute value of the difference is grater than the pre-selected threshold value (See Fig.2b, item 42, in description See Col.2, Lines 25-32).

As to claim 27, Manning shows that the color for each pixel includes the color red, green, and blue (See Fig. 1, item 10, 12, 14, 16, in description See Col. 3. Lines 12-14).

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As to claim 29, Kuzma teaches an apparatus comprising: a frame conversion unit to convert frames of analog image data to a frame of digital image data (See Fig 1-2, items 101-105, 220, 240, in description See Col.5, Lines 13-14); a buffer coupled with frame conversion unit to store a frame of digital image data and subsequent converted frames (See Fig. 2, items 210,230,240, in description See Col. 5, Lines 45-65.

Kuzma teaches comparing frames (See Fig. 6, item 602). However, Kuzma does not teach a processor coupled with buffer to compare the pixel data of the frame of digital image data and pixel data from the subsequent converted frames to identify a subsequent converted frame having pixel data that differs from the pixel data of the frame of digital image data by a threshold amount; and a transmission unit to send the frame of digital image data and the identified frame to a display object.

Manning teaches that after a key frame is established the next frame is compared to the key frame to determine whether the next frame is another key frame, capture the new key frame (See Fig. 2a-2c, items 42,50,66 in description See Col.2, Lines 27-32); a transmission unit to send the frame of digital image data and the identified frame to a display object (See Col. 6, Lines 1-11 and Col. 5, Lines 58-60). It would have been obvious to one ordinary skill in the art at the time of invention to use Manning approach in the Kuzma method of comparing frames to reduce video noise and also improve compressibility, required bandwidth, and reduce the storage capacity, which is always desired in any data processing (See Col. 2, Lines 15-16 in the Manning reference).

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As to claim 30, Manning teaches the apparatus of reducing video noise, which includes phase noise, with the threshold selection (See Fig. 2, in description See Col.3, Lines 29-33, and Col. 2, Lines 28-33).

As to claim 31, Manning uses pixel values as numerical value for each color of each pixel and the difference between any of the plurality of pixel values is the difference between the numerical values for each color of each of the corresponding pixels of the converted subsequent frames to the pixel data of the captured frame (See Fig. 3-5, in description See Col. 2, Lines 26-33).

As to claim 32, Manning shows that the difference between any of the plurality of pixel values of the compared frames exceeds a pre-selected threshold value when the absolute value of the difference is grater than the pre-selected threshold value (See Fig.2b, item 42, in description See Col.2, Lines 25-32).

As to claim 33, Manning shows that the color for each pixel includes the color red, green, and blue (See Fig. 1, item 10, 12, 14, 16, in description See Col. 3. Lines 12-14).

Response to Amendment

3. Applicant's arguments filed on 06-30-03 have been fully considered but they are not persuasive:

Applicant in remarks on pages 6-8 stated, that Manning does not disclose discarding frames and not halting transmission of frames until a subsequent frame differs from a reference frame by a predetermined amount. However, Manning teaches sending the captured (key) frames to a display object, wherein the non-captured or (non-key) frames are skipped ("a higher threshold will result in fewer frames being made key frames") (See Fig. 2c, items

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50,56,66, in description See Col. 6, Lines 3-5). One of the ordinary skills in the art will recognize that proceeding from decision blocks 50 and 66 to block 56 in Fig. 2c will be equivalent to discarding of the frame in Applicant disclosure. This is done in order to reduce video noise and also improve compressibility, required bandwidth, and reduce the storage capacity, which is always desired in any data processing (See Col. 2, Lines 15-16 in the Manning reference).

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Telephone inquire

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 703-305-5661. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703-305-4938. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.

ls August 4, 2003

> BIPIN SHALWALA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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